

### ABSTRACT

**Method for the multiple-antenna transmission of a signal by space-time block codes, corresponding reception method and signal**

The invention relates to a method for sending a signal formed by successive vectors each comprising N symbols to be sent, and implementing at least two transmitter antennas.

According to the invention, a distinct sub-matrix is associated with each of said antennas, said sub-matrices being obtained by subdivision of a unitary square matrix, and each of said antennas sends sub-vectors, obtained by subdivision of said vectors, respectively multiplied by said sub-matrices so as to form, as seen from a receiver, a single combined signal representing the multiplication of said vectors by said unitary matrix.

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Figure 1.